

FORM PTO-1449

ATTY. DOCKET NO.  
264/037SERIAL NO.  
09/849,125LIST OF PATENTS AND OTHER ITEMS FOR APPLICANT'S  
INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

APPLICANT:  
Donald E. Ackley et al.FILING DATE:  
May 4, 2001GROUP:  
Not Yet Assigned

AUG 23 2001

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## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBC CLASS	FILING DATE
JSB	AA	3,950,738	4/76	Hayashi et al.	365	185	7/74
	AB	3,995,190	11/76	Salgo	313	391	12/75
	AC	4,283,773	8/81	Daughton et al.	364	132	4/79
	AD	4,563,419	1/86	Ranki et al.	435	6	12/83
	AE	4,580,895	4/86	Patel	356	39	10/83
	AF	4,584,075	4/86	Goldstein	204	522	11/84
	AG	4,594,135	6/86	Goldstein	204	551	2/85
	AH	4,751,177	6/88	Stabinsky	435	6	6/85
	AI	4,787,963	11/88	MacConnell	204	450	5/87
	AJ	4,807,161	2/89	Comfort et al.	364	550	12/87
	AK	4,816,418	3/89	Mack et al.	436	518	7/85
	AL	4,822,566	4/89	Newman	422	82	5/87
	AM	4,828,979	5/89	Klevan et al.	435	6	11/84
	AN	4,908,112	3/90	Pace	210	198	6/88
	AO	5,063,081	11/91	Cozzette et al.	435	4	8/90
	AP	5,074,977	12/91	Cheung et al.	205	775	10/90
	AQ	5,075,077	12/91	Durley, III et al.	422	56	8/88
	AR	5,096,669	3/92	Lauks et al.	422	61	9/88
	AS	5,096,807	3/92	Leaback	435	6	12/89
	AT	5,125,748	6/92	Bjornson et al.	356	414	5/91
	AU	5,126,022	6/92	Soane et al.	204	458	2/90
	AV	5,143,854	9/92	Pirrung et al.	436	518	3/90
	AW	5,164,319	11/92	Hafeman et al.	435	287	11/89
	AX	5,166,063	11/92	Johnson	435	173	6/90
	AY	5,200,051	4/93	Cozzette et al.	204	403	11/89
	AZ	5,202,231	4/93	Drmanac et al.	435	6	6/91
	BA	5,219,726	6/93	Evans	435	6	6/89
	BB	5,227,265	7/93	DeBoer et al.	430	41	11/90
	BC	5,234,566	8/93	Osman et al.	204	403	4/91
	BD	5,242,797	9/93	Hirshfeld	435	6	1/92
	BE	5,304,487	4/94	Wilding et al.	435	29	5/92
	BF	5,312,527	5/94	Mikkelsen et al.	205	777	10/92
	BG	5,433,819	7/95	McMeen	216	20	5/93
	BH	5,434,049	7/95	Okano et al.	435	6	2/93
	BI	5,445,525	8/95	Broadbent et al.	439	64	5/94
	BJ	5,516,698	5/96	Begg et al.	436	89	4/92

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EXAMINER: /John S. Brusca/

DATE CONSIDERED: 07/14/2006

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JSB	BS	5,527,670	6/96	Stanley	435	6	8/94
	BL	5,527,681	6/96	Holmes	435	6	11/92
	BM	5,605,662	2/97	Heller et al.	422	68	11/93
	BN	5,632,957	5/97	Heller et al.	422	68	9/94
	BO	5,653,939	8/97	Hollis et al.	422	50	8/95
	BP	5,677,195	10/97	Winkler et al.	436	518	11/92
	BQ	5,681,751	10/97	Begg et al.	436	89	5/95
	BR	5,849,486	12/98	Heller et al.	435	6	8/96

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBC CLASS	TRANSLATION YES	NO
JSB	BS	0228075	7/87	EP (Dattagupta et al.)				
	BT	2247889	3/92	GB (Stanley)				
	BU	WO95/07363	3/95	PCT (Konrad)				
	BV	WO90/01564	2/90	PCT (Adams et al.)				
	BW	WO89/01159	2/89	PCT (Cornell et al.)				
	BX	WO93/22678	11/93	PCT (Hollis)				
	BY	WO86/03782	7/86	PCT (Malcolm et al.)				
	BZ	WO89/10977	11/89	PCT (Southern)				
	CA	WO88/08528	11/88	PCT (Stanbro et al.)				
	CB	WO92/04470	3/92	PCT (Stanley)				
	CC	WO98/51819	11/98	PCT (Heller et al.)				
	CD	WO96/01836	1/96	PCT (Heller et al.)				
	CE	WO98/01758	1/98	PCT (Kovacs)				
	CF	WO97/12030	4/97	PCT (Heller et al.)				
	CG	2156074	10/85	UK (Palva et al.)				
	CH	57087	87	Yugoslavia (Drmanac)				

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

JSB	CI	Abrams et al. "Comprehensive Detection of Single Base Changes In Human Genomic DNA Using Denaturing Gradient Gel Electrophoresis & a GC Clamp". <i>Genomics</i> , 7, 1990, 463-475
	CJ	Anand and Southern "Pulsed Field Gel Electrophoresis," <i>Gel Electrophoresis of Nucleic Acids - A Practical Approach</i> , 2d. Ed., D. Rickwood and B.D. Hames (New York: IRL Press 1990), pp 101-123
	CK	Anderson and Young, "Quantitative Filter Hybridization," <i>Nucleic Acid Hybridization - A Practical Approach</i> , Eds. B.D. Hames and S.J. Higgins (Washington, D.C.: IRL Press 1985) pp 73-111
	CL	Bains, "Setting a Sequence to Sequence a Sequence," <i>Bio/Technology</i> , 10:757-758 (1992)
	CM	Barinaga, "Will 'DNA Chip' Speed Genome Initiative?", <i>Science</i> , 253:1489 (1991)
	CN	Beattie et al., "Genosensor Technology," <i>The 1992 San Diego Conference: Genetic Recognition</i> , pp 1-5 (Nov, 1992)
	CO	Beltz et al., "Isolation of Multigene Families and Determination of Homologies by Filter Hybridization Methods," <i>Methods in Enzymology</i> , 100:266-285 (1983)

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JSB	CP	Brown et al. "Electrochemically Induced Adsorption of Radio-Labelled DNA on Gold and HOPG Substrates for STM Investigations". <i>Ultramicroscopy</i> , 38, 1991, 253-264
	CQ	Conner et al., "Detection of Sickle Cell $\beta^3$ -Globin Allele by Hybridization With Synthetic Oligonucleotides," <i>Proc. Natl. Acad. Sci. USA</i> , 80:278-282 (1983)
	CR	Drmanac et al., "Sequencing of Megabase Plus DNA by Hybridization: Theory of the Method," <i>Genomics</i> , 4:114-128 (1989)
	CS	Drmanac et al., "DNA Sequence Determination by Hybridization: A Strategy for Efficient Large-Scale Sequencing," <i>Science</i> , 260: 1649-1652 (1993)
	CT	Eggers et al. "Biochip Technology Development", BioChip Technology Development, Lincoln Laboratory Technical Report 901, Nov. 9, 1990
	CU	Fiaccabrino et al., "Array of Individually Addressable Microelectrodes", <i>Sensors and Actuators B</i> , 18-19 (1994) 675-677
	CV	Fodor et al., "Multiplexed Biochemical Assays With Biological Chips," <i>Nature</i> , 364:555-556 (1993)
	CW	Fodor et al., "Light-Directed, Spatially Addressable Parallel Chemical Synthesis," <i>Science</i> , 251:767-773 (1992)
	CX	Horejsi, "Some Theoretical Aspects of Affinity Electrophoresis," <i>Journal of Chromatography</i> , 178:1-13 (1979)
	CY	Horejsi et al., "Determination of Dissociation Constants of Lectin Sugar Complexes by Means of Affinity Electrophoresis, <i>Biochimica et Biophysica Acta</i> , 499:200-300 (1977)
	CZ	Kakerow et al., "A Monolithic Sensor Array of Individually Addressable Microelectrodes", <i>Sensors and Actuators A</i> , 43 (1994) 296-301
	DA	Mathews, Kricka. "Analytical Strategies For The Use Of DNA Probes". <i>Analytical Biochemistry</i> , 169, 1988, 1-25
	DB	Palecek. "New Trends in Electrochemical Analysis of Nucleic Acids". <i>Bioelectrochemistry and Bioenergetics</i> , 20, 1988, 179-194
	DC	Ranki et al., "Sandwich Hybridization as a Convenient Method for the Detection of Nucleic Acids in Crude Samples," <i>Gene</i> , 21:77-85 (1983)
	DD	Saiki, "Amplification of Genomic DNA," <i>PCR Protocols: A Guide to Methods and Applications</i> , (Academic Press, Inc. 1990), pp 13-20
	DE	Southern et al., "Analyzing and Comparing Nucleic Acid Sequences by Hybridization to Arrays of Oligonucleotides Evaluation Using Experimental Models," <i>Genomics</i> , 13:1008-1017 (1992)
	DF	Strezoska et al., "DNA Sequencing by Hybridization: 100 Bases Read by a Non-Gel-Based Method", <i>Proc. Natl. Acad. Sci. USA</i> , 88:10089-93 (1991)
	DG	Wallace et al., "Hybridization of Synthetic Oligodexribonucleotides to $\phi$ x 174 DNA: The Effect of Single Base Pair Mismatch," <i>Nucleic Acid Res.</i> , 6:3543-3557 (1979)
	DH	Washizu, "Electrostatic Manipulation of Biological Objects," <i>Journal of Electrostatics</i> , 25:109-123 (1990)
	DI	Washizu and Kurosawa, "Electrostatic Manipulation of DNA in Microfabricated Structures," <i>IEEE Transactions on Industry Applications</i> , 26:1165-1172 (1990)
	DJ	Brown et al., "Electrochemically Induced Adsorption of Radio-Labelled DNA on Gold and HOPG Substrates for STM Investigations", <i>Ultramicroscopy</i> , 38 (1991) pp 253-264
✓	DK	Palacek, "New Trends in Electrochemical Analysis of Nucleic Acids", <i>Bioelectrochemistry and Bioenergetics</i> , 20 (1988) pp 179-194

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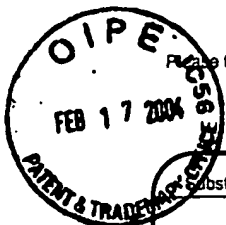
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Substitute for form 1449A/PTO				<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>				Application Number	09/849,122
				Filing Date	May 4, 2001
				First Named Inventor	Donald E. Ackley et al.
				Group Art Unit	1631
(use as many sheets as necessary)				Examiner Name	Ardin H. Marschel
Sheet	1	of	6	Attorney Docket Number	0612404-374 (prev 264/037)

U.S. PATENT DOCUMENTS					
Examiner Initials *	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	Number	Kind Code <sup>2</sup> (if known)			
JSB	3375187		Natelson	10/10/67	
	3375187		Buchler	03/26/68	
	3430072		Stevens	02/25/69	
	3533933		Strauch	10/13/70	
	3539493		Dorman	11/10/70	
	3616454		Levy et al	10/26/71	
	3627137		Bier	12/14/71	
	3640813		Nerenberg	02/08/72	
	3697405		Butter et al	10/10/72	
	3733648		Van Welzen et al	11/20/73	
	3791950		Allington	02/12/74	
	3902986		Nees	09/02/75	
	3957592		Young	05/18/76	
	3980546		Cavacco	09/14/76	
	4032901		Levinthal	06/28/77	
	4111785		Roskam	09/05/78	
	4244803		Aladjem et al	01/13/81	
	4390403		Batchelder	06/28/83	
	4441972		Pohl	04/10/84	
	4473452		Cantor et al	09/25/84	
	4479861		Hedinger	10/30/84	
	448534		Wertz et al	05/15/84	
	4555731		Zinchuk	11/26/85	
	4572668		Auth	02/25/86	
	4617102		Tomblin et al	10/14/86	
	4661451		Hansen	04/28/87	
	4699706		Burd et al	10/13/87	
	4702814		Audeh	10/27/87	
	4707235		Englert et al	11/17/87	
	4728724		Jones Jr. et al	03/01/98	
	4731325		Palva et al	03/15/88	
	4737251		Carle et al	04/12/88	
	4737259		Ogawa et al	04/12/88	
	4722851		Schaltzschneider	09/20/88	
	4804625		Momison et al	02/14/89	
	4810348		Sarrine et al	03/07/89	
	4822746		Walt	04/18/89	
	4824776		Heller et al	04/25/89	
	4830830		Tamotu et al	05/16/89	
	4859583		Heller et al	08/22/89	
	4868103		Stavrianopoulos et al	09/19/89	
	4874492		Mackay	10/17/89	
	4877510		Chen	10/31/89	
	4881107		Matsushita	11/14/89	
	4881812		Ohkubo et al	11/21/89	
	4898658		Karger et al	02/06/90	



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	Number	Kind Code <sup>2</sup> (if known)			
JSB	4924224		Takahashi et al	05/08/90	
	4936963		Mandecki et al	06/26/90	
	4963663		White et al	10/16/90	
	4996143		Heller et al	02/26/91	
	4997537		Karger et al	03/05/91	
	5062942		Kambard et al	11/05/91	
	5078853		Manning et al	01/07/92	
	5082548		Faupel et al	01/21/92	
	5085756		Swedberg	02/04/92	
	5091652		Mathies et al	02/25/92	
	5110434		Zhu et al	05/05/92	
	5114674		Stanbro et al	05/19/92	
	5116576		Stanley	05/26/92	
	5122248		Karger et al	06/16/92	
	5139637		MacConnell	08/18/92	
	5151165		Huynh	09/29/92	
	5151180		Hu et al	09/29/92	
	5151498		Beuscher et al	09/29/92	
	5156810		Ribi	10/20/92	
	5162654		Kostichka et al	11/10/92	
	5178161		Kovacs	11/12/93	
	5192405		Peterson	03/09/93	
	5192980		Dixon et al	03/09/93	
	5202010		Guzman	04/13/93	
	5209831		MacConnell	05/11/93	
	5217593		MacConnell	06/08/93	
	5229297		Schnilpelsky et al	07/20/93	
	5231626		Tadokoro et al	07/27/93	
	5237515		Herron et al	08/17/93	
	5269931		Hu et al	12/14/93	
	5278051		Seeman et al	01/11/94	
	5296114		Manz	03/22/94	
	5296375		Kricka et al	03/22/94	
	5296703		Tsien	03/22/94	
	5314495		Kovacs	05/24/94	
	5316900		Tsujioka et al	05/31/94	
	5324401		Yeung et al	06/28/94	
	5324631		Helentjaris et al	06/28/94	
	5338435		Betts et al	08/16/94	
	5340449		Shukla	08/23/94	
	5344535		Betts et al	09/06/94	
	5346789		Lewis et al	09/13/94	
	5354855		Cech et al	10/11/94	
	5365539		Mooradian	11/15/94	
	5364759		Caskey et al	11/15/94	
	5376249		Afeyan	12/27/94	



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JSB	5378343		Kounaves et al	01/03/95	
	5380833		Urdea	01/10/95	
	5381224		Dixon et al	01/10/95	
	5382511		Stapleton	01/27/95	
	5393401		Knoll	02/28/95	
	5399451		Hashida et al	03/21/95	
	5403708		Brennan et al	04/04/95	
	5427664		Stoer et al	06/27/95	
	5427946		Kricka et al	06/27/95	
	5436129		Stapleton	07/25/95	
	5445934		Fodor et al	08/29/95	
	5451500		Stapleton	09/19/95	
	5464517		Hjerten et al	11/07/95	
	5486335		Wilding et al	01/23/96	
	5498392		Wilding et al	03/12/96	
	5532129		Heller	07/02/96	
	5541061		Fodor et al	07/30/96	
	5561043		Cantor et al	10/01/96	
	5565322		Heller	10/15/96	
	5567617		Caprio et al	10/22/96	
	5569367		Betts et al	10/29/96	
	5578832		Trulson et al	11/26/96	
	5587128		Wilding et al	12/24/96	
	5589047		Coster et al	12/31/96	
	5593580		Kopf	01/14/97	
	5593838		Zanzucchi et al	01/14/97	
	5599668		Stimpson et al	02/04/97	
	5605839		Simpson et al	02/25/97	
	5631734		Stern et al	05/20/97	
	5632876		Zanzucchi et al	05/27/97	
	5635358		Wilding et al	06/03/97	
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	5695940		Drmanac et al	12/09/97	
	5695577		Stettner et al	12/09/97	
	5700637		Southern	12/23/97	
	5726026		Wilding et al	03/10/98	
	5728267		Flaherty	03/17/98	
	5736410		Zarling et al	04/07/98	
	5744305		Fodor et al	04/28/98	
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	5746978		Bienhaus et al	05/05/98	
	5750015		Soane et al	05/12/98	



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JSB	5753439		Smith et al	05/19/98	
	5759773		Tyagi et al	06/02/98	
	5766960		Cornell et al	06/16/98	
	5787032		Heller et al	07/28/98	
	5789167		Konrad	08/04/98	
	5795457		Pethig et al	08/18/98	
	5795716		Chee et al	08/18/98	
	5814200		Pethig et al	09/29/98	
	5824204		Jerman	10/20/98	
	5832165		Reichert et al	11/03/98	
	5849489		Heller et al	12/15/98	
	5858192		Becker et al	01/12/99	
	5891630		Eggers et al	04/06/99	
	6007690		Nelson et al	12/28/99	
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FOREIGN PATENT DOCUMENTS						
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	Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)			
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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>		Application Number	09/849,122
		Filing Date	May 4, 2001
		First Named Inventor	Donald E. Ackley et al.
		Group Art Unit	1631
		Examiner Name	Ardin H. Marschel
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JSB	SATO et al., Individual & Mass Operation OF Biological Cells Using Micromechanical Silicon Devices, Sensors & Actuators, A 21, A23, 1890, 948-953.	
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